

ARM7 Development Board

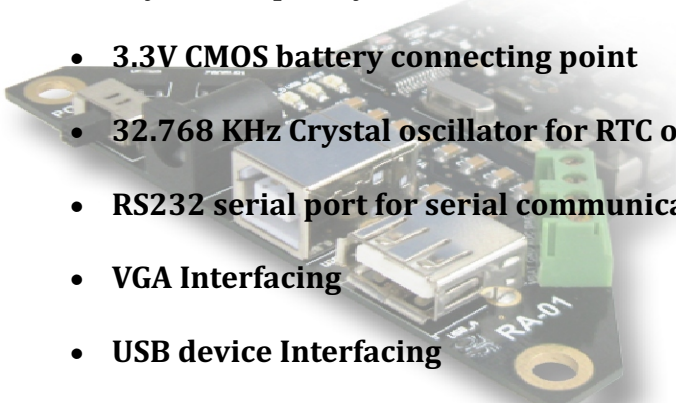
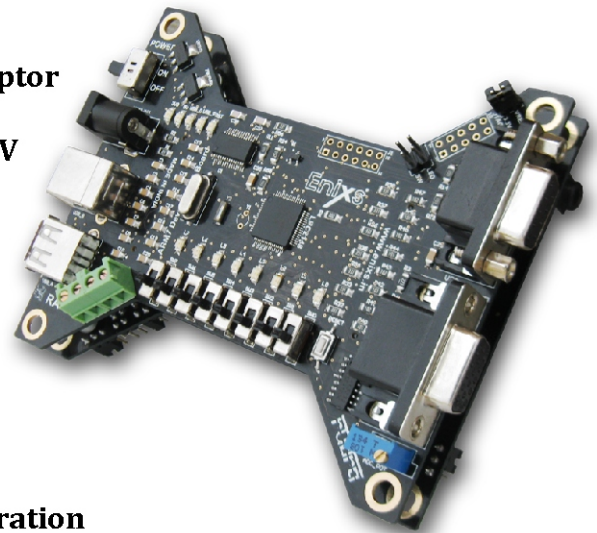


Introduction:

Rudra ARM7 Development board is a perfect platform to evaluate the capabilities of NXP LPC2148 microcontroller. The board has been designed using advanced SMD components and high quality multilayer PCB. Rudra ARM7 Development board is a combination of Rudra Main board (RA-01) and Rudra Add-on board (RA02). The board offers rich set of peripherals to perform advanced embedded applications.

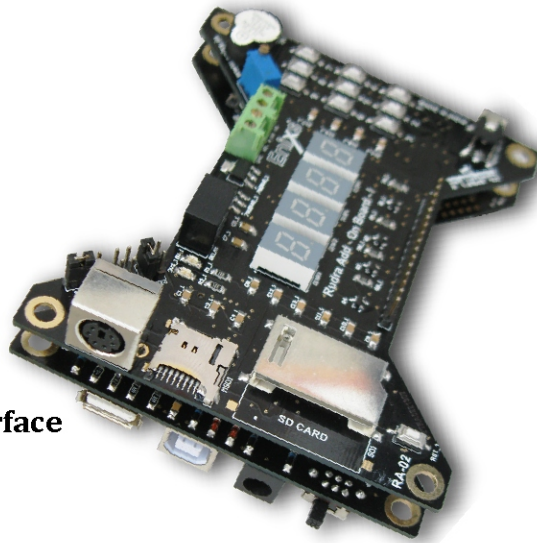
Main Board (RA-01) Specification

- NXP(Philips) :LPC2148 ARM7 processor
- Power up provisions :USB cable & 7.5 adaptor
- Operating voltages of board 5V & chip 3.3V
- USB programming
- Manual and Power on reset
- Crystal frequency 12 Mhz
- 3.3V CMOS battery connecting point
- 32.768 KHz Crystal oscillator for RTC operation
- RS232 serial port for serial communication
- VGA Interfacing
- USB device Interfacing
- Provisions for on-chip ADC & DAC interface
- Provisions for JTAG Interface
- Potentiometer for ADC input & LCD contrast adjustment
- Standard two 40 pin GPIO connector
- I/O pins are connected to GPIO connector for external interface
- Eight slide switches
- Eight SMD LEDs



Add on Board (RA-02) Specification

- 3 x 3 Keypad Matrix interface
- 16x2 LCD Interface
- Four 7 Segment Display Interface
- 5V Solid State Relay Interface
- Buzzer Interface
- PS/2 Interface
- SD / Micro SD Interface
- Onboard Stereo jack for audio interface



Chip Specification

- NXP(Philips) :LPC2148 ARM7 processor
- High speed 32 bit ARM7 TDMI-S CPU
- CPU operating voltages 3V to 3.6V with 5V tolerant I/O pads
- 40KB on chip static RAM & 512KB on chip flash memory
- Two 10 bit ADC with 8 channels each
- Single 10 bit DAC
- Two 32 bit timers/External event counter
- PWM unit and Watch dog Timer
- Multiple serial interfaces includes two UARTs, Two I2C bus and SPI
- In system programming via on chip boot loader software

Kit Contents

- ARM7 Development Board (RA01 & RA02)
- USB Cable
- 7.5V Power adaptor
- Product CD



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